Volume 16

Clinical Nutrition

Official Journal of the European Society of Parenteral and Enteral Nutrition

Volume Contents

Editorial 1

REVIEW
Role of intestinal bacteria in nutrient metabolism
J. H. Cummings, G. T. Macfarlane 3

ORIGINAL ARTICLES
Malnutrition in a children's hospital
W. H. Hendrikse, J. J. Reilly, L. T. Weaver 13

Does the computer improve the nutritional support of the newborn?
A. Cade, H. Thorp, J. W. L. Puntis 19

The quantitative effect of nutrition support on quality of life in outpatients
C. P. Jamieson, B. Norton, T. Day, M. Lakeman, J. Powell-Tuck 25

DNA methylation and subclinical vitamin deficiency of folate, pyridoxal-phosphate and vitamin B12 in chronic alcoholics
M. Cravo, L. Glória, M. E. Camilo, M. Resende, J. Neves Cardoso, C. Nobre Leitao, F. Costa Mira 29

Correspondence 37

Book review 39

Announcements 41

CONSENSUS STATEMENT
ESPEN guidelines for nutrition in liver disease and transplantation
M. Plauth, M. Merli, J. Kondrup, A. Weimann, P. Ferenci, M. J. Müller 43

SUMMARY OF ROUND TABLE CONFERENCE
Gut dysfunction in critical illness
ESPEN Round Table, Chairmen: J. L. Rombeau, J. Takala 57

ORIGINAL ARTICLES
Components of variance when assessing the reproducibility of body composition measurements using bio-impedance and the Hologic QDR-2000 DXA scanner
M. B. Jensen, A. P. Hermann, I. Hessov, L. Mosekilde 61

Early curbing of protein hypercatabolism in postoperative patients by nutritional support with glucose plus amino acids, but not with glucose alone
J. López-Hellin, M. López-Lara, S. Mercader, E. Gemar, E. García-Arumi, P. Sabín, J. A. Baena, S. Schwartz 67

Effects of alanyl-glutamine on intestinal adaptation and bacterial translocation in rats after 60% intestinal resection
Y. W. Liu, M. X. Bai, Y. X. Ma, Z. M. Jiang 75

Effect of glutamine on acute lung injury in rats with endotoxemia
T. Nakamura, M. Yamakawa, J. Maeda, Y. Mimura, H. Yamada, T. Ogawa, H. Kanauchi, T. Ooohara 79

CASE REPORT
Acute beriberi following liver transplantation
J. Cohen, D. Shmueli, J. Keslin, E. Grozovski, G. Grunberg, P. Singer 85

SUMMARIES OF ESPEN GRANTS – FIRST OF TWO PARTS
Effects of growth hormone administration on skeletal muscle glutamine metabolism in severely traumatized patients: preliminary report
G. Biolo, F. Iscra, G. Toigo, B. Ciocchi, R. Situlin, A. Gullo, G. Guarnieri 89

Influence of L-Glutamine on the cytotoxicity of human monocytes against the SW948, a coloncarcinoma cell line
S. A. Oldenburg, R. P. C. Westerink, M. J. Smit, R. H. J. Beelen, S. Meijer, P. A. M. van Leeuwen 93

A glutamine deficiency impairs the function of cultured human monocytes
A. Spittler, S. Holzer, R. Oehler, G. Boltz-Nitulescu, E. Roth 97

Short-term effects of glucagon-like peptide 1 (7–36 amide) on leucine kinetics in healthy volunteers
A. Shalev, U. Keller 101

REVIEW
Taurine and human nutrition
P. P. Stapleton, R. P. Charles, H. P. Redmond, D. J. Bouchier-Hayes 103

ORIGINAL ARTICLES
Inappropriate iron intake in children on long-term parenteral nutrition: outcome after iron withdrawal
M. Ben Hariz, O. Goulet, V. Colomb, R. Girot, S. De Potter, O. Corriol, C. Ricour 109

Tolerance to starvation in children on long-term total parenteral nutrition
B. François, V. Colomb, J. P. Bonnefont, O. Goulet, M. Benhariz, A. Vassault,D. Rabier, C. Ricour 113

Lipoprotein metabolism during and after a 6-h infusion of MCT/LCT vs LCT emulsion in man
M. Richelle, R. J. Deckelbaum, V. Vanweyenberg, Y. A. Carpentier 119

Stimulatory effect of glutamine on human monocyte activation as measured by interleukin-6 and soluble interleukin-6 receptor release
E. Peltonen, K. Pulkki, O. Kirvelä 125

CASE REPORT
Copper deficiency with pancytopenia due to enteral nutrition through jejunostomy
M. Camblor, C. De La Cuerda, I. Bretón, G. Pérez-Rus, S. Alvarez, P. García 129

SUMMARIES OF ESPEN GRANTS – SECOND OF TWO PARTS
Clinical and biochemical modelization of postsurgical intestinal failure in human adults
P. Crenn, C. Matuchansky, B. Messing 133

Intestinal taurine availability from synthetic amino acid-taurine conjugates: an in vitro perfusion study in rats
M. Hummel, K. Pogan, P. Stehle, P. Fürst 137

Glutathione in human skeletal muscle: effects of food intake, surgical trauma and critical illness
J-L. Luo, F. Hammarqvist, K. Andersson, J. Wernerman 141

Polyamine metabolism in high risk patients undergoing major abdominal operation
V. Šrámek, M. Pöyhönen, T. Eloranta, J. Takala 145

Route of nutrient delivery influences liver lipid metabolism in rats
V. Colomb, A. Leturque, G. Guihot, A Jobert, O. Corriol, C. Ricour, J. Girard 149

SPECIAL REPORT
Antioxidant vitamins in pervention
H. K. Biesalski, H. Böhles, H. Esterbauer, P. Fürst, F. Gey, G. Hundsdörfer, H. Kasper, H. Sies, J. Weisburger 151

EDITORIAL
Collaborative nutritional science: across the miles
M. A. Gassull, J. L. Rombeau 167

REVIEW ARTICLE
Metabolic changes in cancer cachexia – first of two parts
I. de Blaauw, N. E. P. Deutz, M. F. von Meyenfeldt 169

ORIGINAL ARTICLES
Changes in mucosal fatty acid profile in inflammatory bowel disease and in experimental colitis: a common response to bowel inflammation
F. Fernández-Bañares, M. Esteve-Comas, J. Mañé, E. Navarro, X. Bertrán, E. Cabré, R. Bartolí, J. Boix, C. Pastor, M. A. Gassull 177

Lock method using sodium hydroxide solution to clear occluded central venous access devices
K. Sando, M. Fuji, K. Tanaka, K. Chen, H. Yoshida, Y. Iiboshi, R. Nezu, K. Konishi, Y. Takagi, A. Okada 185

CASE REPORT
Multiple frequency bioimpedance: a bed-side technique for assessment of fluid shift patterns in a patient with severe dehydration
O. Dewit, L. Ward, S. J. Middleton, C. Watson, P. J. Friend, M. Elia 189

COLLABORATIVE *CLINICAL NUTRITION–JPEN* SCIENTIFIC PUBLICATIONS
Nutrition support in clinical practice: review of published data and recommendations for future research directions
S. Klein, J. Kinney, K. Jeejeebhoy, D. Alpers, M. Hellerstein, M. Murray, P. Twomey and Others 193

Book reviews 219

Announcements 221

REVIEW ARTICLES
Metabolic changes of cancer cachexia – second of two parts
I. De Blaauw, N. E. P. Deutz, M. F. Von Meyenfeldt 223

Metabolic aspects of *trans* fatty acids
B. Koletzko, T. Decsi 229

ORIGINAL ARTICLES
Influence of a novel amino acid solution (enriched with the dipeptide glycyl-tyrosine) on plasma amino acid concentration of patients with acute renal failure
K. H. Smolle, P. Kaufmann, S. Fleck, A. Lueger G. Mausser, W. Pölz, G. Kleinberger, G. J. Krejs 239

Effect of dietary ribonucleic acid on bacterial translocation and survival following blood transfusion and thermal injury
R. Gennari, J. W. Alexander, T. Eaves-Pyles, T. Coyne, A. Testori, J. G. Geraghty 247

Energy cost of fever in chidren on total parenteral nutrition
M. Benhariz, O. Goulet, J. Salas, V. Colomb, C. Ricour 251

Evaluation of immune markers in asymptomatic AIDS patients receiving fish oil supplementation
N. Virgili, M. Farriol, J. M. Castellanos, M. Giró, D. Podzamczer, A. M. Pita 257

CASE REPORT
Pericardial parenteral nutrition infusion following acute angulation of a neonatal polyurethane central venous catheter tip
A. Cade, J. W. L. Puntis 263

Book review 265

Announcements 267

EDITORIAL
Multidimensional approach for nutritional evaluation and restoration in the elderly
F. Vetta, S. Ronzoni, L. Palleschi, M. Rosa Bollea 269

REVEIW ARTICLES
Immunomodulation of Crohn's disease using TNF-α neutralizing monoclonal antibodies
S. J. H. Van Deventer 271

Integration of substrate flow in vivo: some insights into metabolic control
K. N. Frayn 277

ORIGINAL ARTICLES
Effects of refeeding by cyclic enteral nutrition on body composition: comparative study of elderly and younger patients
X. Hébuterne, S. Schneider, J.-L. Peroux, P. Rampal 283

Correction of protein-energy malnutrition in older adults: effects of a short-term aerobic training program
S. Bermon, X. Hébuterne, J.-L. Peroux, P. Marconnet, P. Rampal 291

Simultaneous measurements of free amino acid patterns of plasma, muscle and erythrocytes in healthy human subjects
J. C. Divino Filho, J. Bergström, P. Stehle, P. Fürst 299

Energy expenditure in patients with multiple organ failure
J. M. Raurich, J. Ibáñez, P. Marsé, J. Velasco, J. Bergadá 307

Book review *313*

ESPEN NEWS

European Society of Parenteral and Enteral Nutrition constitution, Amsterdam, 1997 315

Acknowledgement 319

Contents of current literature 321

Announcements 329